

**Listing of the Claims**

Claim 1. (Original): An apparatus for electrically earthing a load-side conductor in a controller, said apparatus comprising:

a base;

a lug electrically connected to said load-side conductor and fixedly attached to said base;

an earthing bar adapted to contact said lug and provide a ground path from said lug, said earthing bar adapted to move between a charged position and an earthed position;

a ground connection electrically connected to said earthing bar and adapted to earth said earthing bar;

a spring having a first end and a second end, said first end engaging said earthing bar and said second end engaging said base, said spring providing a motive force for moving said earthing bar from said charged position to said earthed position;

a charging mechanism for compressing said spring and moving said earthing bar from said earthed position to said charged position;

an actuating mechanism for releasing said spring and causing said earthing bar to move from said charged position to said earthed position; and

an operator for tripping said actuating mechanism.

Claim 2. (Original): The apparatus of Claim 1 wherein said lug includes a bevel against which said earthing bar rests when said earthing bar is in said earthed position.

**PATENT**  
**USSN: 10/027,554**

1       **Claim 3. (Original): The apparatus of Claim 1 wherein said base includes a positioning**  
2               **member adapted for engaging said lug wherein said lug is held in spaced relation**  
3               **to said base.**

1       **Claim 4. (Original): The apparatus of Claim 1 wherein said lug includes a flat surface**  
2               **adapted to receive a load-side terminal.**

1       **Claim 5. (Original): The apparatus of Claim 1 wherein said lug is adapted to receive a**  
2               **line-side conductor.**

1       **Claim 6. (Original): The apparatus of Claim 1 further comprising a tang on said lug,**  
2               **said tang adapted to fixedly engage a corresponding slot in said base.**

1       **Claim 7. (Original): The apparatus of Claim 1 wherein said operator includes an**  
2               **indicator with a first indication corresponding to said earthing bar in said charged**  
3               **position and a second indication corresponding to said earthing bar in said earthed**  
4               **position.**

1       **Claim 8. (Original): The apparatus of Claim 1 wherein said actuating mechanism**  
2               **includes**

3               **a first member connected to a second member at a first pivot which is constrained to a**  
4               **slot in a third member,**

5               **said second member has a distal end opposite said first pivot, said distal end pivotably**  
6               **connected to a sliding member,**

7               **said sliding member fixedly attached to said earthing bar,**

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9       said first member having a central pivot held in fixed spatial relation to said base,

10       said third member engaging said charging mechanism,

11       whereby said first member and said second member are held in a fixed position with said

12   spring compressed.

1       Claim 9. (Original): The apparatus of Claim 8 wherein, with said earthing bar in said  
2       charged position,

3       said first pivot is fixedly positioned slightly off a line connecting said central pivot of

4   said first member and said distal end of said second member.

1       Claim 10. (Original): The apparatus of Claim 8 wherein said first and second members  
2       are adapted to hold said earthing bar in said charged position whereby said first  
3       pivot is fixedly positioned slightly off a line connecting said central pivot of said  
4       first member and said distal end of said second member.

1       Claim 11. (Original): The apparatus of Claim 8 wherein said first and second members  
2       are adapted to hold said earthing bar in said charged position whereby said first  
3       and second members form an obtuse angle and said first pivot is fixedly  
4       positioned.

1       Claim 12. (Canceled)

1       Claim 13. (Canceled)

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1       Claim 14. (Previously amended) An apparatus for electrically earthing a load-side  
2       conductor in a controller, said apparatus comprising:

3       an earthing member connected to ground, said earthing member adapted to move between  
4       a charged position and an earthed position in which said load-side conductor is earthed;

5       a spring providing a motive force for moving said earthing member from said charged  
6       position to said earthed position, wherein said spring is compressed in said charged position;

7       a sliding member fixedly attached to said earthing member;

8       a first member having a central pivot for rotating thereabout;

9       a second member having a first distal end connected to said first member at a first pivot  
10      and an opposite distal end connected to said sliding member at a second pivot; and

11      a third member defining a slot, said first pivot constrained to said slot;

12      whereby movement of said third member causes said first pivot to toggle between a first  
13      position corresponding to said charged position and a second position corresponding to said  
14      earthed position;

1       Claim 15. (Canceled):

1       Claim 16. (Canceled)

1       Claim 17. (Canceled):

1       Claim 18. (Canceled):